

Message Text

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C O N F I D E N T I A L STATE 176008

E.O. 11652: GDS

TAGS: TGEN, JA, US

SUBJECT: GOJ NON-PAPER RE SCIENTIFIC COOPERATION

REF: TOKYO 12647

1. FOLLOWING IS TEXT OF GOJ PROPOSALS PRESENTED
JULY 11:

QUOTE JAPAN-US COOPERATION IN SCIENCE AND TECHNOLOGY TO
PROMOTE RESEARCH AND DEVELOPMENT OF NEW ENERGY SOURCES

JAPANESE VIEWS AND PROPOSALS

A. PURPOSE OF THE COOPERATION.

THE PROPOSED COOPERATION WOULD AIM AT PROMOTING RESEARCH
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AND DEVELOPMENT OF NEW ENERGY SOURCES LOOKING TOWARDS
THE 21ST CENTURY TO MEET THE NEEDS OF THE "POST-
OIL" PERIOD, THEREBY CONTRIBUTING TO THE WELFARE OF MAN-
KIND THROUGH SCIENCE AND TECHNOLOGY.

B. AREAS FOR THE COOPERATION.

(1) NUCLEAR FUSION.

(2) THOSE AREAS RELATED TO NEW SOURCES OF ENERGY OTHER THAN (1) ABOVE THAT BOTH JAPAN AND THE U.S. MAY IDENTIFY AS AREAS OF COMMON INTEREST AND AGREE TO TAKE UP AS SPECIFIC AREAS FOR COOPERATION. (NEW SOURCES OF ENERGY MAY INCLUDE, AMONG OTHERS, SOLAR ENERGY INCLUDING PHOTOSYNTHESIS, GEO-THERMAL ENERGY AND COAL LIQUEFACTION.)

C. MANAGEMENT COMMITTEE.

IT IS SUGGESTED TO ESTABLISH AN ORGANIZATION FOR MANAGING COOPERATIVE ACTIVITIES TO BE CONSISTING OF TOP-LEVEL PERSONS TO BE DIRECTLY APPOINTED BY THE PRIME MINISTER AND THE PRESIDENT RESPECTIVELY.

AN ORGANIZATION CONSISTING OF WORKING LEVEL PERSONS WILL BE ESTABLISHED UNDER THE ABOVE-MENTIONED COMMITTEE, TO DEAL WITH TECHNICAL MATTERS.

D. MODALITIES OF THE COOPERATION.

JAPAN AND THE U.S. WILL COOPERATE ON AN EQUAL BASIS. THE ABOVE-MENTIONED COMMITTEE WILL EXAMINE R AND D PROJECTS, AND DECIDE, FOR EXAMPLE, WHAT FACILITIES MAY BE RELEVANT TO SPECIFIC R AND D PROJECTS.
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E. FINANCING.

EXPENDITURES NECESSARY TO CARRY OUT AGREED R AND D PROJECTS (INCLUDING OPERATIONAL COSTS OF THE MANAGEMENT

COMMITTEE) WILL, IN PRINCIPLE, BE SHARED EQUALLY BY JAPAN AND THE U.S.

F. PERIOD OF THE COOPERATION.

THE INITIAL PERIOD OF COOPERATION WILL BE 10 YEARS. AT THE END OF THE INITIAL PERIOD BOTH SIDES WILL CONSULT WITH EACH OTHER ON THE QUESTION OF COOPERATION THEREAFTER.

2. SPECIFIC PROJECTS PROPOSED:

A. NUCLEAR FUSION.

(1) R AND D ON EQUIPMENTS RELATED TO JT60 AND TFTR BY DIVIDING THE TASK BETWEEN JAPAN AND THE U.S., AND CO-OPERATIVE RESEARCH ON THESE FACILITIES.

(2) JOINT R AND D ON SUCH SUBJECTS AS THE NON-CIRCULAR CROSS-SECTION TOKAMAK (DOUBLET-III), AND THE TECHNOLOGY OF TRITIUM HANDLING, AIMING AT A PLASMA ENGINEERING TEST FACILITY (THE NEXT STEP).

(3) COOPERATIVE RESEARCH ON NON-TOKAMAK MAGNETIC CONFINEMENT AND INERTIAL CONFINEMENT SCHEMES, AND ON THE FIELD OF PLASMA PHYSICS.

B. THOSE AREAS RELATED TO NEW SOURCES OF ENERGY OF THAT BOTH JAPAN AND THE U.S. IDENTIFY AS AREAS OF COMMON INTEREST AND AGREE TO TAKE UP AS SPECIFIC AREAS FOR COOPERATION.
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(1) PHOTOSYNTHESIS.

(A) PHOTOSYNTHETIC SOLAR ENERGY CONVERSION.
DETERMINATION OF ELABORATE MECHANISMS OF SOLAR PHOTON CONVERSION IN CHLOROPLASTS AND OTHER PHOTOSYNTHETIC ORGANELLES IN PLANT.

(B) BIOLOGICAL HYDROGEN PRODUCTION. EXPLORATION AND DEVELOPMENT OF HYDRO-GEN-PRODUCTION AND OTHER SOLAR ENERGY CAPTURE SYSTEMS WHICH USE THE BIOLOGICAL PHOTOSYNTHETIC APPARATUS.

(C) PHOTOPHYSICAL AND PHOTOCHEMICAL SOLAR ENERGY CONVERSION. DETERMINATION AND

SYNTHESIS OF THE MOLECULAR ARCHITECTURE FOR EFFICIENT SOLAR PHOTON CONVERSION THROUGH STUDIES ON PHOTOCHEMISTRY AND PHOTOPHYSICS.

(D) PHOTOCHEMICAL PRODUCTION OF HYDROGEN AND HIGH ENERGY COMPOUNDS. EXPLORATION AND DEVELOPMENT OF PHOTOCHEMICAL PRODUCTION OF HYDROGEN AND HIGH ENERGY COMPOUNDS.

C. GEOTHERMAL ENERGY.

(1) R AND D ON A THERMAL TEST LOOP FOR HOT DRY ROCK POWER GENERATION.

(2) R AND D ON A TEST PLANT FOR BINARY-CYCLE POWER
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GENERATION UTILIZING HOT WATER.

D. COAL LIQUEFACTION.

R AND D ON A COAL-LIQUEFACTION TEST PLANT UTILIZING THE
PROCESS OF DIRECT-HYDROGENATION, ETC. UNQUOTE CHRISTOPHER

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